

Work Order ID 93749

\*93749\*

Page 1

November-27-12 11:04:08 AM

Item ID: D6103-003

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Round Billet, Aluminum

Start Date: 11/22/12 Start Qty: 20.00

\*20\*

Cust Item ID:

Required Date: 12/07/12 Req'd Qty: 20.00

\*20\*

Customer:

Reference:

Approvals: Process Plan: M L J Date: 12-11-27 Tooling:

Date:

Run Start \*NR1\*

QC: Date: SPC (Y/N):

Date:

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D6103

Rev B

100

0.00

\*100\*

PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 18525 a) Description: Alluminum round billet b)  
Ø3.500" x 12.500" longc) Tolerance on all dimensions are +0.030"/-0.000"

d) Material: 7075-T7351 (QQ-A-225/9) Material certification required

CX 12/11/28 (20)

110

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00

\*110\*

Packaging

Memo

0.00

Packaging

Ensure material certification is attached

20x SP 12-12-11

120

QC6- Inspect dimensions to drawing

0.00

\*120\*

QC

Memo

0.00

Quality Control

20x DAS 05 12.12.12

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY											
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other

# Work Order ID 93749

\*93749\*

Page 2

November-27-12 11:04:08 AM

Item ID: D6103-003 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Round Billet, Aluminum  
 Start Date: 11/22/12 Start Qty: 20.00 \*20\* Cust Item ID:  
 Required Date: 12/07/12 Req'd Qty: 20.00 \*20\* Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: NAT-43	0.00							
*130*						20			DAS 05 12-12-12
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
*140*									12/12/13
QC	Memo	0.00							
Quality Control									

12-12-12

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# Picklist Print

November-27-12 11:04:07 AM

Page 1

Work Order ID: 93749

Parent Item: D6103-003

Parent Item Name: Round Billet, Aluminum

Start Date: 11/22/12

Required Date: 12/07/12

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP Rev:A New Issue 06-02-09 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
<del>D6103-003P</del> round alum billet		Purchased	No			110	Each	0.0000	1	20		11/22/12	

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

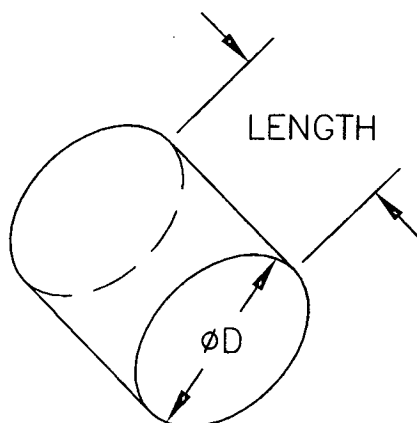
Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other



DESIGN P41	DRAWN BY P41	DART AEROSPACE LTD. HAWKESBURY, ONTARIO, CANADA	
CHECKED HKS	APPROVED HKS	DRAWING NO. D6103	Rev. B SHEET 1 OF 1
DATE 06.01.31		TITLE ROUND BILLET, ALUMINUM	SCALE NTS
A	01.04.10	NEW ISSUE	
B	06.01.31	ADD D6103-003	

## SPECIFICATION CONTROL DRAWING

RELEASED  
06.02.07 HKS



12-11-27  
NO. 23249 MJS  
UNCONTROLLED  
SUBJECT TO  
WITHDRAWAL  
FOR  
REVISION

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, DIAMETER x LENGTH (+0.030/-0.000) AS SHOWN.

TOLERANCE ON ALL DIMENSIONS IS +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

Part No.	Alloy	D (Diameter)	Length
D6103-001	7075-T6/T651 (QQ-A-200/11 OR QQ-A-225/9)	Ø3.250	12.50
D6103-003	7075-T7351 (QQ-A-225/9)	Ø3.500	12.50

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**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1567999

<b>Ship From:</b> A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 10-DEC-2012	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid		<b>Carrier</b> MANITOULIN		<b>BOL No</b> 1567999-2	

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
-------------------------	---------------------------------------

Order No	Line No	Item No	Description				
2563186	4	8808.MO	3.5000..RD.7075.T7351.ALUMINUM.CF.144.0000 CUT TO 12.5 IN ( + .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: QQ-A-225/9				
Purchase Order No		Part Number		Ordered Qty		Invoice Qty	
18525		YOUR ITEM NUMBER: D6103-003		3.00 PCS		3.00 PCS	
Details		END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # 1C202.a					
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
118199073	ALCOA INC	MA011003332		3			36.3761

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:



# Certified Inspection Report

05/25/11  
09:30:29

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Castle M & Co**

Customer P.O. No.  
**109532**

Customer Part No.  
**(8808)**

Alcoa Order No.  
**MMC-97150-002**

Govt. Contract No.

## Actual/Started Chemistry

LOT/WORK ORDER		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL			
<b>MA011003332</b>	MAX	<b>0.08</b>	<b>0.15</b>	<b>1.6</b>	<b>0.02</b>	<b>2.5</b>	<b>0.20</b>	<b>5.7</b>	<b>0.02</b>	<b>LT 0.05</b>	<b>LT 0.15</b>	<b>Rem</b>			
	MIN	<b>0.06</b>	<b>0.12</b>	<b>1.4</b>	<b>0.01</b>	<b>2.3</b>	<b>0.20</b>	<b>5.5</b>	<b>0.02</b>						
<b>MA011003333</b>	MAX	<b>0.08</b>	<b>0.12</b>	<b>1.6</b>	<b>0.02</b>	<b>2.5</b>	<b>0.20</b>	<b>5.7</b>	<b>0.02</b>	<b>LT 0.05</b>	<b>LT 0.15</b>	<b>Rem</b>			
	MIN	<b>0.07</b>	<b>0.12</b>	<b>1.4</b>	<b>0.02</b>	<b>2.3</b>	<b>0.20</b>	<b>5.5</b>	<b>0.02</b>						
<b>MA011004085</b>	MAX	<b>0.08</b>	<b>0.15</b>	<b>1.6</b>	<b>0.02</b>	<b>2.5</b>	<b>0.20</b>	<b>5.7</b>	<b>0.02</b>	<b>LT 0.05</b>	<b>LT 0.15</b>	<b>Rem</b>			
	MIN	<b>0.06</b>	<b>0.12</b>	<b>1.4</b>	<b>0.01</b>	<b>2.3</b>	<b>0.20</b>	<b>5.5</b>	<b>0.02</b>						

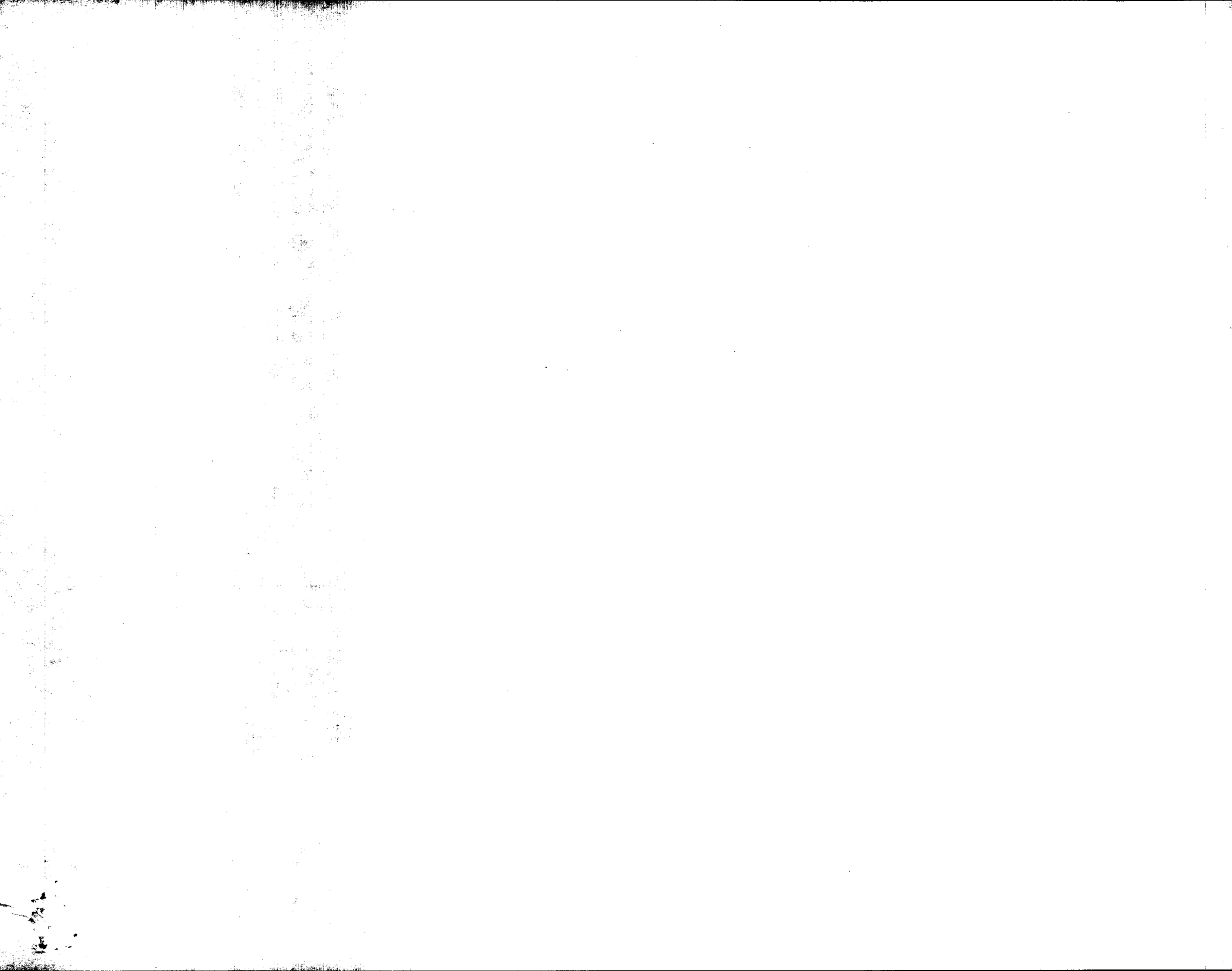
## NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.

This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

## Castle Metals FP

HEAT NUMBER MA011003332  
 MECHANICAL ID \_\_\_\_\_  
 ITEM CODE 8808  
 LOT NUMBER \_\_\_\_\_  
 PO NUMBER 109532  
 RECEIPT DATE 5-31-2011  
 SUPPLIER ALCOA  
 SPECIFICATION \_\_\_\_\_  
 LCS NO  
 COMMENT \_\_\_\_\_  
 APPROVED DS



# Certified Inspection Report

05/25/11  
09:30:29

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
Cast: **A M & Co**

Customer P.O. No.  
**109532**

Customer Part No.  
**(8808)**

Alcoa Order No.  
**MMC-97150-002**

Govt. Contract No.

Ship To **A. M. Castle & Company**  
**3400 North Wolf Road**  
**Bay #7**  
**Franklin Park, IL 60131**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/QS-9000 registered quality management system.  
Melted and manufactured in the USA.

Thomas J. Klemp, Quality Assurance Manager

*Thomas J Klemp*

Date Shipped **05/25/11**

Weight Shipped **10,104 lbs**

Alloy - Temper **7075-T7351**

Size **3.50000 IN**

Product **CFRB-CF ROD Specific Length**

BOL **000159457**

Shape **DIA** Config **12 FT**

QRR

## Specifications:

A97075-11 Rev 10 w/exc & comments per T  
Klemp email dtd 1/5/10  
Material conforms to T73 requirements  
Minimum mechanical properties to apply:  
68 KSI Tensile Strength  
56 KSI Yield Strength  
10% Elongation  
AMS 4124D (Except Size)  
QQA-225/9E (Except Size)  
ASTM B211-03 (Except Size)  
AMS-QQA-225/9 (Except Size)

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9.  
Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

TEST REQUIREMENTS	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
	U.T.S.	T.Y.S.	%Elong	Cond						
Max:		67.9								
Min:	68.0	56.0	10.0	38.0						

Test Results Lot / Work Order	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong	Cond					
MA011003332	1	Max: 72.3	61.2	15.0	41.1					
		Min: 72.3	61.2	15.0	41.1					
MA011003333	1	Max: 71.0	59.4	15.0	41.4					
		Min: 71.0	59.4	15.0	41.4					
MA011004085	1	Max: 72.3	61.0	15.0	40.9					
		Min: 72.3	61.0	15.0	40.9					

## TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI  
Cond Conductivity % IACS

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY		%Si	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL			
7075	MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem			
	MIN			1.2		2.1	0.18	5.1		Each	Total				

**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 1567999

<b>Ship From:</b> A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>		<b>Carrier</b>		<b>BOL No</b>	
10-DEC-2012	ORIGIN	Prepaid		MANITOULIN		1567999-2	

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
-------------------------	---------------------------------------

<b>Order No</b>	<b>Line No</b>	<b>Item No</b>	<b>Description</b>				
2563186	3	8808.MO	3.5000..RD.7075.T7351.ALUMINUM.CF.144.0000 CUT TO 12.5 IN ( + .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: QQ-A-225/9				
<b>Purchase Order No</b>		<b>Part Number</b>		<b>Ordered Qty</b>		<b>Invoice Qty</b>	
18525		YOUR ITEM NUMBER: D6103-003		5.00 PCS		5.00 PCS	
<b>Details</b>		END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # 1C202.a					
<b>Delivery No.</b>	<b>Mill</b>	<b>Heat Number</b>	<b>Mech Id</b>	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b>
118199075	ALCOA INC	MA011004085		5			60.6269

These commodities/technologies are subject to US Export Administration &amp; US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle &amp; Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

# Certified Inspection Report

05/25/11  
09:30:29

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Castle A M & Co**

Customer P.O. No.  
**109532**

Customer Part No.  
**(8808)**

Alcoa Order No.  
**MMC 97150-002**

Govt. Contract No.

Ship To **A. M. Castle & Company**  
**3400 North Wolf Road**  
**Bay #7**  
**Franklin Park, IL 60131**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/QS-9000 registered quality management system.  
Melted and manufactured in the USA.

Thomas J. Klemp, Quality Assurance Manager

*Thomas J. Klemp*

Date Shipped **05/25/11** Weight Shipped **10,104 lbs**  
Alloy - Temper **7075-T7351** Size **3.50000 IN**

Product **CFRB-CF ROD Specific Length**  
Shape **DIA** Config **12 FT**

BOL **000159457**  
QRR

## Specifications:

A97075-11 Rev 10 w/exc & comments per T  
Klemp email dtd 1/5/10  
Material conforms to T73 requirements  
Minimum mechanical properties to apply:  
68 KSI Tensile Strength  
56 KSI Yield Strength  
10% Elongation  
AMS 4124D (Except Size)  
QQA-225/9E (Except Size)  
ASTM B211-03 (Except Size)  
AMS-QQA-225/9 (Except Size)

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9.  
Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

TEST REQUIREMENTS	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
	U.T.S.	T.Y.S.	%Elong	Cond						
Max:		67.9								
Min:	68.0	56.0	10.0	38.0						

Test Results	Lot / Work Order	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test
			U.T.S.	T.Y.S.	%Elong	Cond					
MA011003332	1	Max:	72.3	61.2	15.0	41.1					
		Min:	72.3	61.2	15.0	41.1					
MA011003333	1	Max:	71.0	59.4	15.0	41.4					
		Min:	71.0	59.4	15.0	41.4					
MA011004085	1	Max:	72.3	61.0	15.0	40.9					
		Min:	72.3	61.0	15.0	40.9					

## TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI  
Cond Conductivity % IACS

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY	MAX	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL			
7075	MIN	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem			
				1.2		2.1	0.18	5.1		Each	Total				

# Certified Inspection Report

05/26/11  
09:30:29

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Castle A M & Co**

Customer P.O. No.  
**109532**

Customer Part No.  
**(8808)**

Alcoa Order No.  
**MMC-97150-002**

Govt. Contract No.

## Actual Started Chemistry

LOT/WORK ORDER		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL			
<b>MA011003332</b>	MAX	0.08	0.15	1.6	0.02	2.5	0.20	5.7	0.02	LT 0.05	LT 0.15	Rem			
	MIN	0.06	0.12	1.4	0.01	2.3	0.20	5.5	0.02						
<b>MA011003333</b>	MAX	0.08	0.12	1.6	0.02	2.5	0.20	5.7	0.02	LT 0.05	LT 0.15	Rem			
	MIN	0.07	0.12	1.4	0.02	2.3	0.20	5.5	0.02						
<b>MA011004085</b>	MAX	0.08	0.15	1.6	0.02	2.5	0.20	5.7	0.02	LT 0.05	LT 0.15	Rem			
	MIN	0.06	0.12	1.4	0.01	2.3	0.20	5.5	0.02						

## NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

## Castle Metals FP

HEAT NUMBER MA011004085  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 8808  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 109532  
RECEIPT DATE 5-31-2011  
SUPPLIER ALCOA  
SPECIFICATION \_\_\_\_\_  
LCS NO  
COMMENT \_\_\_\_\_  
APPROVED PI

**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1567999

<b>Ship From:</b> A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 10-DEC-2012	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid	<b>Carrier</b> MANITOULIN		<b>BOL No</b> 1567999-2		

<b>Shipment Details</b>	<b>Final Destination Branch - MON</b>
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<b>Order No</b> 2563186	<b>Line No</b> 1	<b>Item No</b> 8808.MO	<b>Description</b> 3.5000..RD.7075.T7351.ALUMINUM.CF.144.0000 CUT TO 12.5 IN ( + .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: QQ-A-225/9				
<b>Purchase Order No</b> 18525		<b>Part Number</b> YOUR ITEM NUMBER: D6103-003		<b>Ordered Qty</b> 6.00 PCS		<b>Invoice Qty</b> 6.00 PCS	
<b>Details</b>		END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # 1C202.a					
<b>Delivery No.</b> 118199087	<b>Mill</b> ALCOA INC	<b>Heat Number</b> MA010096684	<b>Mech Id</b>	<b>PCS</b> 6	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b> 72.7522

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

# Certified Inspection Report

12/03/10  
09:15:28

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer	Customer P.O. No.	Customer Part No.	Alcoa Order No.	Govt. Contract No.
Castle A M & Co	75780	(8808)	MMG-95695-005	

## NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

Castle Metals FP

HEAT NUMBER	MA010096684
MECHANICAL ID	
ITEM CODE	8808
LOT NUMBER	
PO NUMBER	75780
RECEIPT DATE	12-7-2010
SUPPLIER	ALCOA
SPECIFICATION	
LCS	NO
COMMENT	
APPROVED	DT



# Certified Inspection Report

12/03/10  
09:15:28

Alcoa Inc.  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer <b>Castle A M &amp; Co</b>	Customer P.O. No. <b>75780</b>	Customer Part No. <b>(8808)</b>	Alcoa Order No. <b>MMC-95695-005</b>	Govt. Contract No.
--	-----------------------------------	------------------------------------	---	--------------------

Ship To **A. M. Castle & Company**  
**3400 North Wolf Road**  
**Bay #7**  
**Franklin Park, IL 60131**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/QS-9000 registered quality management system.

Melted and manufactured in the USA.  
Thomas J. Klemp, Quality Assurance Manager

*Thomas J. Klemp*

Date Shipped <b>12/03/10</b>	Weight Shipped <b>2,246 lbs</b>	Product <b>CFRB-CF ROD</b>	Specific Length	BOL <b>000159003</b>
Alloy - Temper <b>7075-T7351</b>	Size <b>3.50000 IN</b>	Shape <b>DIA</b>	Config <b>12 FT</b>	QRR

## Specifications:

A97075-11 Rev 10 w/exc & comments per T  
Klemp email dtd 1/5/10  
Material conforms to T73 requirements  
Minimum mechanical properties to apply:  
68 KSI Tensile Strength  
56 KSI Yield Strength  
10% Elongation  
AMS 4124D (Except Size)  
QQA-225/9E (Except Size)  
ASTM B211-03 (Except Size)  
AMS-QQA-225/9 (Except Size)

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9.  
Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

TEST REQUIREMENTS	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
	U.T.S.	T.Y.S.	%Elong	Cond						
Max:		67.9								
Min:	68.0	56.0	10.0	38.0						

Test Results	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong	Cond					
Lot / Work Order										
MA010096684	1	71.8	60.9	13.0	41.4					
Max:		71.8	60.9	13.0	41.4					
Min:		71.8	60.9	13.0	41.4					

## TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI  
Cond Conductivity % IACS

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

## Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL			
7075	MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem			
	MIN			1.2		2.1	0.18	5.1		Each	Total				

## Actual Started Chemistry

LOT/WORK ORDER		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL			
MA010096684	MAX	0.09	0.18	1.5	0.02	2.4	0.21	5.7	0.02	LT 0.05	LT 0.15	Rem			
	MIN	0.08	0.16	1.4	0.02	2.3	0.19	5.5	0.02						

**Castle Metals®**

A. M. Castle &amp; Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1567999

<b>Ship From:</b> A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>		<b>Carrier</b>		<b>BOL No</b>	
10-DEC-2012	ORIGIN	Prepaid		MANITOULIN		1567999-2	

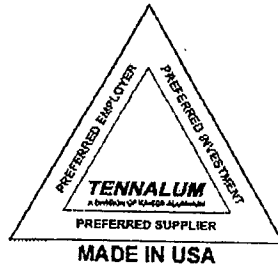
<b>Shipment Details</b>	<b>Final Destination Branch -MON</b>
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Order No	Line No	Item No	Description				
2563186	2	8808.MO	3.5000..RD.7075.T7351.ALUMINUM.CF.144.0000 CUT TO 12.5 IN ( + .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: QQ-A-225/9				
Purchase Order No		Part Number		Ordered Qty		Invoice Qty	
18525		YOUR ITEM NUMBER: D6103-003		6.00 PCS		6.00 PCS	
Details		END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # 1C202.a					
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
118203637	KAISER ALUMINUM	20128792		6 ✓			72.7522

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.			
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.			
Reviewed by Authorized Castle Metals Representative:		Date:	Name:

# KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum  
PO Box 669  
Jackson, TN 38302  
731-423-2811



**CERTIFIED TEST REPORT**  
<http://Certs.KaiserAluminum.com>

## Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. This material meets the requirements of (cold finished) T73 temper and QQ-A-225/9E (CANCELLED). NAFTA - YES. Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of Payments Prog), and FAR TAA (FAR 52.225-5 Trade Agreements) AS9100B:2004 Material is RoHS compliant.

### Castle Metals FP

HEAT NUMBER 20128792  
MECHANICAL ID \_\_\_\_\_  
ITEM CODE 8808  
LOT NUMBER \_\_\_\_\_  
PO NUMBER 37421  
RECEIPT DATE 3-10-2010  
SUPPLIER KAISER  
SPECIFICATION \_\_\_\_\_  
LCS NO  
COMMENT \_\_\_\_\_  
APPROVED DL

## CERTIFICATION

Kaiser Aluminum & Chemical Corporation ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

*John Rennekamp*

Plant Serial: 132500

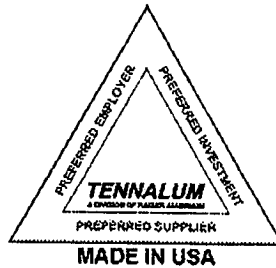
Kaiser Order Number: 657162

# KAISER

## ALUMINUM

### FABRICATED PRODUCTS

Tennalum  
PO Box 669  
Jackson, TN 38302  
731-423-2811



**CERTIFIED TEST REPORT**  
<http://Certs.KaiserAluminum.com>

CUSTOMER PO NUMBER: 37421-2		CUSTOMER PART NUMBER: 8808		PRODUCT DESCRIPTION: Cold Finished Round		
KAISER ORDER NUMBER: 657162	LINE ITEM: 2	SHIP DATE: 03/08/2010		ALLOY: 7075	TEMPER: T7351	
WEIGHT SHIPPED: 1968 lbs.	QUANTITY: 14 pcs.	B/L NUMBER: 30511		DIAM/DAF/THKNS: 3.500 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO: A M Castle & Co AM Castle & Co. 3400 No. Wolf Road Franklin Park, IL 60131 USA				SOLD TO: A M Castle & Co AM Castle & Co. 3400 No. Wolf Road Franklin Park, IL 60131 USA		

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %	COND % IACS
20128792	72.7	61.0	15.0	38.6

### Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.09	0.27	1.4	0.03	2.8	0.20	5.8	0.02			20128792
Max	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	
Min			1.2		2.1	0.18	5.1				

### Specifications

Standard: ISO 9001, ASTM B211-03, AMS 4124D, AMS-QQ-A-225/9 Non-Standard: A97075-11-10

### CERTIFICATION

Kaiser Aluminum & Chemical Corporation ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

*John Rennekamp*

Plant Serial: 132500

Kaiser Order Number: 657162



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO18525**

Purchase Order Date 11/28/12

PO Print Date 11/28/12

Page Number 1 of 1

**Order From :**

VC-MET001

METAUX CASTLE  
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720  
P.O. BOX 4090 STN A  
TORONTO, ON M5W OE9  
CA

**Contact Name**

**Vendor Phone**

**Vendor Fax**

**Vendor Account Nbr**

514 694 9575

514 695 3281

**Buyer**

**Requisition Nbr**

**Tax Resale Nbr**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

**Ship To :**

DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FXED**  
CG 12/11/12

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D6103-003P	round alum billet	12/12/12 Yes	✓ 20.00 Each	Yours ppd	\$65.0000	\$1,300.00

**Special Inst:** AS PER DWG D6103 REV. B  
B93749  
MATERIAL: 7075-T7351 AS PER QQ-A-  
225/9  
SIZE: 3.500" X 12.500" LONG  
TOLERANCE ON ALL DIMENSIONS  
ARE +0.030"/-0.000"

**PO Total:**


**\$1,300.00**

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

**Change Nbr:**

**Change Date:** 11/28/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required **YES** NO

<b>STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE</b> RECEIVED, Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), manifest, understood throughout the contract) agrees to carry another carrier on the route over all or any portion of the property, that every service Domestic Straight Bill of Lading of rail or water shipment, or by air in the applicable motor carrier classification or tariff and is a motor carrier shipment.		<b>Shipper No.:</b> 1567999-2 <b>FROM AT:</b> A. M. Castle & Co. 835-SELKIRK AVENUE POINTE CLAIRE QC H9R 3S2 CAN
<b>MANITOULIN TRANSPORT 1-800-265-1485</b>  16948437		<b>Ship Date:</b> 10-DEC-2012
<b>Consigned To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY ON K6A 1K7 CAN	<b>Delivery instructions:</b> ALL LOADS MUST BE TARPED. DELIVER PACKING LIST AND TEST REPORTS OR CONSIGNEE WILL REFUSE.	<b>Payment Terms:</b> Prepaid <b>REMIT FREIGHT INVOICES TO:</b> RayTrans Management, Inc. PO Box 1210 Washington PA 15301
<b>Carrier Name:</b> MANITOULIN	<b>Additional Insurance Coverage:</b> The agreed or declare value for the property is hereby specifically stated by the shipper to be not exceeding: _____ per _____	

**Shipment Breakdown:**

Quantity	Packaging	Class	Commodity
	BUNDLE	FAK_50	Metal Product

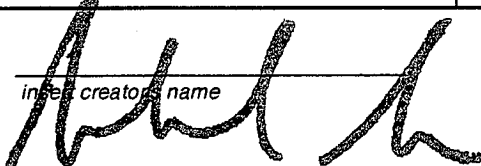

**Shipment Weights:**

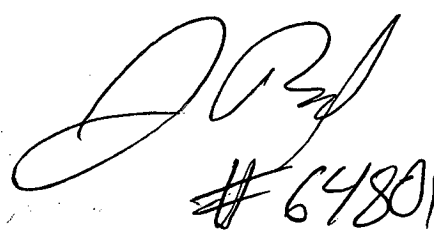
Product	243 LBS
Dunnage	0 LBS
Gross	243 LBS

**ORDER DETAIL:**

Customer PO	Sales Order No.	Line No.	Castle Item No.	Quantity Shipped	Castle UOM
18525	2563186	4	2563186*4*1	3	PCS
18525	2563186	3	2563186*3*1	5	PCS
18525	2563186	1	2563186*1*1	6	PCS
18525	2563186	2	2563186*2*1	6	PCS

Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property.
THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF LADING	The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.	Customer is responsible for all shipping documents and compliance with United States and Canadian laws, including but not limited to U.S. and Canadian Export laws and regulations.

<b>SHIPPER, PER:</b>  Per _____ Date _____ in creator's name		<b>Shipper No.:</b> 1567999-2
<b>PROOF OF DELIVERY:</b>  Name _____ Signature: <b>MICHAEL WOCKNER</b>		Driver's Signature _____ Please Print Name Here _____
<b>All pages must be signed</b> Page 1 of 1		

  
 #64801

